

AMENDMENTS TO THE SEQUENCE LISTING

IN THE SEQUENCE LISTING

Please replace the Sequence Listing of record with the Substitute Sequence Listing enclosed herewith.

SEQUENCE LISTING

<110> FRIGERIO, Lorenzo et al.
 <120> ANTIBODIES
 <130> 1009-0118PUS1
 <140> US 10/535,433
 <141> 2005-05-18
 <150> PCT/GB2003/004983
 <151> 2002-11-18
 <150> GB0226878.7
 <151> 2002-11-18
 <160> 72
 <170> PatentIn version 3.2
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 <220>
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 <222> (2)..(2)
 <223> Val or Tyr
 <220>
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 <222> (3)..(3)
 <223> Ser or Asn
 <220>
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 <222> (6)..(6)
 <223> An aliphatic amino acid, especially Val or Leu
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 1 5
 <210> 2
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Asn Val Ser Val Ser Val
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<400> 3

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<223> Asn, His or Leu

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<222> (2)..(2)

<223> Val or Tyr

<220>

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<222> (3)..(3)

<223> Ser or Asn

<220>

<221> misc_feature

<222> (6)..(6)

<223> Any aliphatic amino acid

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Xaa Xaa Xaa Val Ser Xaa
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<210> 5

<211> 18

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<223> Modified targeting signal in the final antibody heavy chain

<220>

<221> misc_feature

<222> (3)..(3)

<223> Asn, His or Leu. Preferably Asn

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<222> (4)..(4)
<223> Val or Tyr, preferably Val

<220>
<221> misc_feature
<222> (5)..(5)
<223> Ser or Asn

<220>
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<222> (8)..(8)
<223> An aliphatic amino acid, preferably Val or Leu

<220>
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<222> (9)..(9)
<223> An aliphatic amino acid, preferably Ile, Val or Leu

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<222> (10)..(10)
<223> Met, Val or Leu, preferably Met

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<222> (11)..(11)
<223> Ser or Ala

<220>
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<222> (12)..(12)
<223> Asp or Glu

<220>
<221> misc_feature
<222> (13)..(13)
<223> Any amino acid, preferably Gly, Val, Ala or Thr

<220>
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<222> (14)..(14)
<223> Asp, Glu, Gly, or Ala, preferably Asp

<220>
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<222> (15)..(15)
<223> Gly or Ser, preferably Gly

<220>
<221> misc_feature
<222> (16)..(16)
<223> Ile, Thr, Val, Glx or Ala, preferably Ile or Thr

<220>
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<222> (18)..(18)
<223> May be present or absent. When present, it is Ala or Tyr. Most preferably Ala.

<400> 5

Pro Thr Xaa Xaa Xaa Val Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

Cys Xaa

<210> 6

<211> 6

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<220>

<221> misc_feature

<222> (1)..(1)

<223> Asn, His or Leu

<220>

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<222> (2)..(2)

<223> Val or Tyr

<220>

<221> misc_feature

<222> (3)..(3)

<223> Ser or Asn

<220>

<221> misc_feature

<222> (6)..(6)

<223> Aliphatic amino acid

<400> 6

Xaa Xaa Xaa Val Ser Xaa
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<211> 28

<212> PRT

<213> Artificial sequence

<220>

<223> Modified targeting signal in the final antibody heavy chain

<400> 7

Ser Cys Met Val Gly His Glu Ala Leu Pro Met Asn Phe Thr Gln Lys
 1 5 10 15

Thr Ile Asp Arg Leu Ser Gly Lys Pro Ala Cys Tyr
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<210> 8
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<220>
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Ser Cys Met Val Gly His Glu Ala Leu Pro Met Asn Phe Thr Gln Lys
 1 5 10 15

Thr Ile Asp Arg Leu Ser Gly Lys Pro Ala Ala Ala Cys Tyr
 20 25 30

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<220>
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Ser Cys Met Val Gly His Glu Ala Leu Pro Met Asn Phe Thr Gln Lys
 1 5 10 15

Thr Ile Asp Arg Leu Ser Gly Lys Pro His Ala Ser Thr Pro Glu Pro
 20 25 30

Asp Pro Val Ala Cys Tyr
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<210> 10
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27

<210> 11
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<400> 11
ccctctagac tagtagcata ggccatc 27

<210> 12
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actgtagaca attccgccac ctcagcctac a 31

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<210> 15
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<210> 16
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<220>
<223> Synthetic oligonucleotide

<400> 16
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<210> 17
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<220>
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<400> 17
 tcgatgggtct tctggacgaa gttcatgggc aa 32

<210> 18
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<400> 18
 aaaccaccca atgtcgctgt gtctgtgatc atg 33

<210> 19
 <211> 33
 <212> DNA
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<220>
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<400> 19
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<210> 20
 <211> 30
 <212> DNA
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<220>
 <223> Synthetic oligonucleotide

<400> 20
 ccctctagac tatTTaccCG acagacggTC 30

<210> 21
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 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 21

gagcagctca acagcgtttt ccgctcagtc ag

32

<210> 22
 <211> 8
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<220>
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 <400> 22

Pro Ala Ala Ala Ala Ala Cys Tyr
 1 5

<210> 23
 <211> 40
 <212> PRT
 <213> Mus musculus

<400> 23

Cys Met Val Gly His Glu Ala Leu Pro Met Asn Phe Thr Gln Thr Ile
 1 5 10 15

Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile Met
 20 25 30

Ser Glu Gly Asp Gly Ile Cys Tyr
 35 40

<210> 24
 <211> 23
 <212> PRT
 <213> Mus musculus

<400> 24

Cys Ser Val Leu His Glu Gly Leu His Asn His His Thr Glu Lys Ser
 1 5 10 15

Leu Ser His Ser Pro Gly Lys
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<210> 25
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 25

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 26
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 26

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 27
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 27

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 28
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 28

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 29
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 29

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 30
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 <213> Mus musculus

<400> 30

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 31
 <211> 25
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 <213> Mus musculus

<400> 31

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

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 <211> 25
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<400> 32

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 33
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 33

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
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Met Ser Glu Gly Asp Gly Ile Cys Tyr

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Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 35
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<400> 35

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 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 36
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 36

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 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 37
 <211> 25
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 <213> Mus musculus

<400> 37

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 38
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 38

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 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 39
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 39

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 40
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 40

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 41
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 41

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 42
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 42

Ile Asp Arg Leu Ser Gly Lys Pro Thr Asn Val Ser Val Ser Val Ile
 1 5 10 15

Met Ser Glu Gly Asp Gly Ile Cys Tyr
 20 25

<210> 43
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 43

Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val Asn Val Ser Val Val
 1 5 10 15

Met Ala Glu Val Asp Gly Thr Cys Tyr
 20 25

<210> 44
 <211> 25
 <212> PRT
 <213> Gorilla gorilla

<400> 44

Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val Asn Val Ser Val Val
 1 5 10 15

Met Ala Glu Val Asp Gly Thr Cys Tyr
 20 25

<210> 45
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 45

Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val Asn Val Ser Val Val
 1 5 10 15

Met Ala Glu Val Asp Gly Thr Cys Tyr
 20 25

<210> 46
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 46

Ile	Asp	Arg	Leu	Ala	Gly	Lys	Pro	Thr	His	Val	Asn	Val	Ser	Val	Val
1				5					10					15	

Met	Ala	Glu	Val	Asp	Gly	Thr	Cys	Tyr
			20					25

<210> 47
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 47

Ile	Asp	Arg	Leu	Ala	Gly	Lys	Pro	Thr	His	Val	Asn	Val	Ser	Val	Val
1				5					10					15	

Met	Ala	Glu	Val	Asp	Gly	Thr	Cys	Tyr
			20					25

<210> 48
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 48

Ile	Asp	Arg	Leu	Ala	Gly	Lys	Pro	Thr	His	Val	Asn	Val	Ser	Val	Val
1				5					10					15	

Met	Ala	Glu	Val	Asp	Gly	Thr	Cys	Tyr
			20					25

<210> 49
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 49

Ile	Asp	Arg	Leu	Ala	Gly	Lys	Pro	Thr	His	Val	Asn	Val	Ser	Val	Val
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Met	Ala	Glu	Val	Asp	Gly	Thr	Cys	Tyr
			20					25

<210> 50

<211> 25
 <212> PRT
 <213> Homo sapiens

<400> 50

Ile	Asp	Arg	Leu	Ala	Gly	Lys	Pro	Thr	His	Val	Asn	Val	Ser	Val	Val
1				5					10					15	

Met	Ala	Glu	Val	Asp	Gly	Thr	Cys	Tyr
			20					25

<210> 51
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 51

Ile	Asp	Arg	Leu	Ala	Gly	Lys	Pro	Thr	His	Val	Asn	Val	Ser	Val	Val
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Met	Ala	Glu	Val	Asp	Gly	Thr	Cys	Tyr
			20					25

<210> 52
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 52

Ile	Asp	Arg	Leu	Ala	Gly	Lys	Pro	Thr	His	Val	Asn	Val	Ser	Val	Val
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Met	Ala	Glu	Val	Asp	Gly	Thr	Cys	Tyr
			20					25

<210> 53
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 53

Ile	Asp	Arg	Leu	Ala	Gly	Lys	Pro	Thr	His	Val	Asn	Val	Ser	Val	Val
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Met	Ala	Glu	Val	Asp	Gly	Thr	Cys	Tyr
			20					25

<210> 54
 <211> 25

<212> PRT
 <213> Homo sapiens

<400> 54

Ile	Asp	Arg	Leu	Ala	Gly	Lys	Pro	Thr	His	Val	Asn	Val	Ser	Val	Val
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Met	Ala	Glu	Val	Asp	Gly	Thr	Cys	Tyr
			20					25

<210> 55
 <211> 25
 <212> PRT
 <213> Oryctolagus cuniculus

<400> 55

Ile	Asp	Arg	Leu	Ala	Gly	Lys	Pro	Thr	His	Val	Asn	Val	Ser	Val	Val
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Val	Ala	Asp	Val	Glu	Ala	Val	Cys	Tyr
			20					25

<210> 56
 <211> 25
 <212> PRT
 <213> Mesocricetus auratus

<400> 56

Val	Asp	Arg	Ser	Thr	Gly	Lys	Pro	Thr	Leu	Tyr	Asn	Val	Ser	Leu	Ile
1				5					10					15	

Met	Ser	Asp	Ala	Gly	Gly	Thr	Cys	Tyr
			20					25

<210> 57
 <211> 25
 <212> PRT
 <213> Mus musculus

<400> 57

Val	Asp	Lys	Ser	Thr	Gly	Lys	Pro	Thr	Leu	Tyr	Asn	Val	Ser	Leu	Ile
1				5					10					15	

Met	Ser	Asp	Thr	Gly	Gly	Thr	Cys	Tyr
			20					25

<210> 58
 <211> 25
 <212> PRT

<213> Homo sapiens

<400> 58

Val	Asp	Lys	Ser	Thr	Gly	Lys	Pro	Thr	Leu	Tyr	Asn	Val	Ser	Leu	Val
1				5					10					15	

Met	Ser	Asp	Thr	Ala	Gly	Thr	Cys	Tyr
			20					25

<210> 59

<211> 25

<212> PRT

<213> Homo sapiens

<400> 59

Val	Asp	Lys	Ser	Thr	Gly	Lys	Pro	Thr	Leu	Tyr	Asn	Val	Ser	Leu	Val
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Met	Ser	Asp	Thr	Ala	Gly	Thr	Cys	Tyr
			20					25

<210> 60

<211> 25

<212> PRT

<213> Homo sapiens

<400> 60

Val	Asp	Lys	Ser	Thr	Gly	Lys	Pro	Thr	Leu	Tyr	Asn	Val	Ser	Leu	Val
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Met	Ser	Asp	Thr	Ala	Gly	Thr	Cys	Tyr
			20					25

<210> 61

<211> 25

<212> PRT

<213> Homo sapiens

<400> 61

Val	Asp	Lys	Ser	Thr	Gly	Lys	Pro	Thr	Leu	Tyr	Asn	Val	Ser	Leu	Val
1				5					10					15	

Met	Ser	Asp	Thr	Ala	Gly	Thr	Cys	Tyr
			20					25

<210> 62

<211> 25

<212> PRT

<213> Homo sapiens

<400> 62

Val	Asp	Lys	Ser	Thr	Gly	Lys	Pro	Thr	Leu	Tyr	Asn	Val	Ser	Leu	Val
1				5					10					15	

Met	Ser	Asp	Thr	Ala	Gly	Thr	Cys	Tyr
			20				25	

<210> 63

<211> 25

<212> PRT

<213> Homo sapiens

<400> 63

Val	Asp	Lys	Ser	Thr	Gly	Lys	Pro	Thr	Leu	Tyr	Asn	Val	Ser	Leu	Val
1				5					10					15	

Met	Ser	Asp	Thr	Ala	Gly	Thr	Cys	Tyr
			20				25	

<210> 64

<211> 25

<212> PRT

<213> Canis familiaris

<400> 64

Val	Asp	Lys	Ser	Thr	Gly	Lys	Pro	Thr	Leu	Tyr	Asn	Val	Ser	Leu	Val
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Leu	Ser	Asp	Thr	Ala	Gly	Thr	Glx	Tyr
			20				25	

<210> 65

<211> 25

<212> PRT

<213> Suncus murinus

<400> 65

Val	Asp	Lys	Thr	Ser	Gly	Lys	Pro	Thr	Leu	Tyr	Asn	Val	Ser	Leu	Val
1				5					10					15	

Leu	Ser	Asp	Thr	Ala	Ser	Thr	Cys	Tyr
			20				25	

<210> 66

<211> 25

<212> PRT

<213> Oryctolagus cuniculus

<400> 66

Val Asp Lys Ser Thr Gly Lys Pro Thr Leu Tyr Asn Val Ser Leu Ile
 1 5 10 15

Met Ser Asp Thr Ala Ser Thr Cys Tyr
 20 25

<210> 67

<211> 25

<212> PRT

<213> Gallus gallus

<400> 67

Val Asp Arg Ala Ser Gly Lys Ala Ser Ala Val Asn Val Ser Leu Val
 1 5 10 15

Leu Ala Asp Ser Ala Ala Ala Cys Tyr
 20 25

<210> 68

<211> 22

<212> PRT

<213> Ralstonia solanacearum

<400> 68

Arg Ile Gly Gly Pro Pro Thr Gly Ile Thr Ser Asp Val Tyr Leu Ser
 1 5 10 15

Val Tyr Glu Gly Val Cys
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<210> 69

<211> 32

<212> PRT

<213> Artificial sequence

<220>

<223> Modified targeting signal in the final antibody heavy chain

<400> 69

Ser Cys Met Val Gly His Glu Ala Leu Pro Met Asn Phe Thr Gln Lys
 1 5 10 15

Thr Ile Asp Arg Leu Ser Gly Lys Pro Ala Ala Ala Ala Ala Cys Tyr
 20 25 30

<210> 70

<211> 4

<212> PRT

<213> Artificial Sequence

<220>
<223> c-terminal targeting residues of antibody

<400> 70

Ala Phe Val Tyr
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<210> 71
<211> 8
<212> PRT
<213> Artificial sequence

<220>
<223> Modified c-terminal targeting signal of the antibody

<400> 71

Pro Ala Ala Ala Ala Ala Cys Ala
1 5

<210> 72
<211> 7
<212> PRT
<213> artificial sequence

<220>
<223> Modified c-terminal targeting signal of the antibody

<400> 72

Pro Ala Ala Ala Ala Ala Cys
1 5